

Notice of Allowability

Application No.

10/814,946

Applicant(s)

KYLE, HENRY MARTIN

Examiner

Rashedul Hassan

Art Unit

2179

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed on 3/30/2004.
2. ☒ The allowed claim(s) is/are 1 and 4-12 renumbered 1-10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John C. Carey, registration no. 51530, on 04/03/2007.

The claims have been amended as follows:

1. (Currently amended) A system comprising:

A graphical user interface configured to organize and manage the layers of a digitized map, the graphical user interface comprising:

a layer hierarchy including a first layer and a second layer;

a first display range defining a first set of map scales at which the first layer is displayed in the digitized map; and

a second display range defining a second set of map scales at which the second layer is displayed in the digitized map;

a first graphics style representing a first map feature included in the first layer;

a first display range bar corresponding to the first graphics style and spanning the first display range; and

a display device displaying the graphical user interface.

2. (Cancelled)
3. (Cancelled)
4. (Currently amended) The system of claim 1, wherein the ~~The~~ graphical user interface ~~of claim 2,~~ further comprising a first summary bar corresponding to the first layer and spanning the first display range.
5. (Currently amended) The system of claim 1, wherein the ~~The~~ graphical user interface ~~of claim 1,~~ further comprising a first graphics style and a second graphics style, the first graphics style and the second graphics style representing a first map feature included in the first layer.
6. (Currently amended) The system of claim 5, wherein the ~~The~~ graphical user interface ~~of claim 5,~~ further comprising a first display range bar corresponding to the first graphics style and the second graphics style and spanning the first display range.
7. (Currently amended) The system of claim 5, wherein the ~~The~~ graphical user interface ~~of claim 5,~~ further comprising a first summary bar corresponding to the first layer and spanning the first display range.
8. (Currently amended) The system ~~The graphical user interface~~ of claim 5, wherein the first display range includes a first subset of map scales and a second subset of map scales, and the graphical user interface further comprising a first display range bar corresponding the first graphics style and spanning the first subset of map scales, and a second display range

bar corresponding to the second graphics style and spanning the second subset of map scales.

9. (Currently amended) The system ~~The graphical user interface~~ of claim 1, wherein the layer hierarchy further includes a first node under which one or more layers of the digitized map are organized.
10. (Currently amended) The system of claim 9, wherein the ~~The graphical user interface of claim 9,~~ further comprising a first summary bar corresponding to the first node and spanning a third display range defining a third set of map scales, the third set of map scales including each map scale at which any layer organized under the node is displayed in the digitized map.
11. (Currently amended) The system ~~The graphical user interface~~ of claim 9, wherein the node is a layer group or a sub-layer group.
12. (Currently amended) The system ~~The graphical user interface~~ of claim 1, wherein the first layer and the second layer are arranged in the layer hierarchy based on the order in which they are superimposed when the digitized map is rendered.
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)

- 16. (Cancelled)
- 17. (Cancelled)
- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Cancelled)

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The examiner deems Daly et al. (US 6,339,747 B1) hereinafter Daly, Sklar et al. (US 5,790,121) hereinafter Sklar, Friederich et al. (US 6,249,742 B1) hereinafter Friederich, Wong (US 6,104,410), Beaudoin (US 6,854,091 B1) and Schaffer (US 6,219,050 B1) to be relevant prior art of record and Daly being the closest prior art of record. For the broadest independent claim 1, Daly teaches a graphical user interface (Fig. 2) configured to organize and manage the layers of a digitized map, the graphical user interface comprising: a layer hierarchy including a first layer and a second layer (layer list 34 in Fig. 2, column 9 lines 6-40); a first display range defining a first set of map scales at which the first layer is displayed in the digitized map (column 14, lines 44-56); a second display range defining a second set of map scales at which the second layer is displayed in the digitized map (column 14, lines 44-56); a first graphics style representing a first map feature included in the first layer (column 11, lines 15-57, column 12 lines 41-57). However, Daly does not teach a first display range bar corresponding to the first graphics style and spanning the first display range. Although Beaudoin and Schaffer both teach using bar graph to represent links connecting nodes (see Fig. 6 and related discussion in column

4-6) and packet density (122 in Fig. 2, see related discussion in column 5) respectively, they do not teach or suggest using a bar graph spanning and representing the range of scales corresponding to a graphics style. Therefore, independent claim 1, when considered as a whole, is allowable over the prior arts of record. Specifically, prior arts of record fail to clearly teach or suggest a first display range bar corresponding to the first graphics style and spanning the first display range. Dependent claims 4-12 further add limitations to the allowable subject matter of independent claim 1. Therefore, dependent claims 4-12 are also considered allowable over the prior arts of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rashedul Hassan whose telephone number is 571-272-9481. The examiner can normally be reached on M-F 7:30AM - 4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



(Rashedul Hassan)

**WEILUN LO**
SUPERVISORY PATENT EXAMINER